## Amendments to the Claims

- 1. (Original) A method of manufacturing a semiconductor device comprising the step of depositing an epitaxial layer based on Group IV elements on a silicon substrate by Chemical Vapor Deposition, and including employing nitrogen or a noble gas as a carrier gas.
- 2. (Original) A method as claimed in claim 1, which is employed to form an epitaxial layer based on silicon, germanium and/or carbon.
- 3. (Original) A method as claimed in claim 2, wherein the epitaxial layer comprises Si<sub>1-y</sub>C<sub>y</sub>.
- 4. (Original) A method as claimed in claim 2, wherein the epitaxial layer comprises a SiGe epitaxial layer.
- 5. (Original) A method as claimed in claim 2, wherein the epitaxial layer comprises Si<sub>1-x-v</sub>Ge<sub>x</sub>C<sub>v</sub>.
- 6. (Original) A method as claimed in claim 2, wherein the epitaxial layer comprises a silicon epitaxial layer.
- 7. (Original) A method as claimed in any one of the preceding claims, which is carried out at a low temperature.
- 8. (Original) A method as claimed in claim 7, which is carried out at a temperature of less than about 600°C.
- 9. (Currently Amended) Chemical Vapor Deposition apparatus (10) comprising a chamber (12) having a gas input port (14) and a gas output port (16), and means (18) for mounting a silicon substrate (20) within the chamber (12), said apparatus (10) further including a gas source (24) connected to the input port (14) and arranged to provide nitrogen or a noble gas as a carrier gas.

10. (Currently Amended) Apparatus as claimed in claim 9, which is arranged to deposit an epitaxial layer in accordance with the method as claimed in any one of claims 2-8.

claim 2.

10. (New) Apparatus as claimed in claim 9, which is arranged to deposit an epitaxial layer

in accordance with the method as claimed in claim 3.

11. (New) Apparatus as claimed in claim 9, which is arranged to deposit an epitaxial layer

in accordance with the method as claimed in claim 4.

12. (New) Apparatus as claimed in claim 9, which is arranged to deposit an epitaxial layer

in accordance with the method as claimed in claim 5.

13. (New) Apparatus as claimed in claim 9, which is arranged to deposit an epitaxial layer

in accordance with the method as claimed in claim 6.

14. (New) Apparatus as claimed in claim 9, which is arranged to deposit an epitaxial layer

in accordance with the method as claimed in claim 7.

15. (New) Apparatus as claimed in claim 9, which is arranged to deposit an epitaxial layer

in accordance with the method as claimed in claim 8.